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Wrapper. Data. Warehouse. Swiss. Prot. dbEST. SCoP. PDB. Wrapper. Wrapper Wrapper. Mediator. Figure 1 A Data Warehouse Architecture ...

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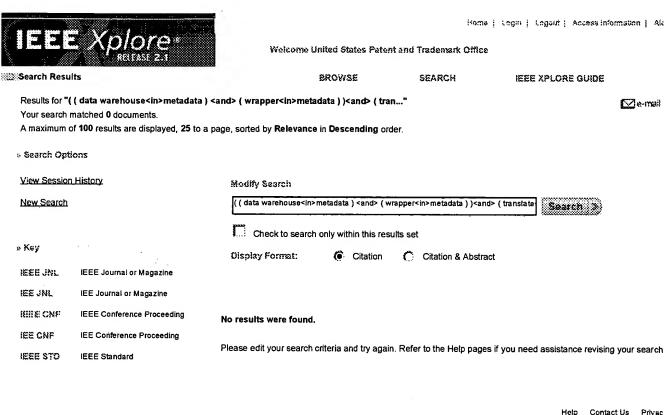
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1 Research problems in data warehousing

Jennifer Widom

December 1995 Proceedings of the fourth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(673.01 KB) Additional Information: full citation, references, citings, index terms

² Maintaining data warehouses over changing information sources

window

Elke A. Rundensteiner, Andreas Koeller, Xin Zhang

June 2000 Communications of the ACM, Volume 43 Issue 6

Publisher: ACM Press

Full text available: pdf(126.93 KB) Additional Information: full citation, references, citings, index terms, review

3 Maintenance and workload: Using AutoMed metadata in data warehousing

environments

Hao Fan, Alexandra Poulovassilis

November 2003 Proceedings of the 6th ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(271.41 KB) Additional Information: full citation, abstract, references, index terms

What kind of metadata can be used for expressing the multiplicity of data models and the data transformation and integration processes in data warehousing environments? How can this metadata be further used for supporting other data warehouse activities? We examine how these questions are addressed by AutoMed, a system for expressing data transformation and integration processes in heterogeneous database environments.

Keywords: data integration, data warehouse, metadata

4 GIS and the internet: A WFS-based mediation system for GIS interoperability

Omar Boucelma, Mehdi Essid, Zoé Lacroix

November 2002 Proceedings of the 10th ACM international symposium on Advances in

geographic information systems

Publisher: ACM Press

Full text available: pdf(326.18 KB) Additional Information: full citation, abstract, references, index terms

The proliferation of spatial data on the Internet is beginning to allow a much wider access to data currently available in various Geographic Information Systems (GIS). In order to move to a real Web-based community where geographical data can be accessed and exchanged, we need to provide flexible and powerful GIS data integration solutions. Indeed, GIS are highly heterogeneous: not only they differ by their data representations, but they also offer radically different query languages. A GIS med ...

Keywords: XML, geographic information systems (GIS), geography markup Language (GML), mediation, web feature server (WFS)

Industry session 2: meditation and data sharing: The virGIS WFS-based spatial



mediation system

Omar Boucelma, Jean-Yves Garinet, Zoé Lacroix

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(105.28 KB) Additional Information: full citation, abstract, references, index terms

The proliferation of spatial data on the Internet is beginning to allow a much wider access to data currently available in various Geographic Information Systems (GIS). In order to provide effective spatial database integration, we need to provide flexible and powerful GIS data integration solutions. Indeed, GIS are highly heterogeneous: not only they differ by their data representations, but they also offer radically different query languages. A GIS mediation approach should provide an integrat ...

Keywords: XML, geographic information systems (GIS), geography markup language (GML), mediation, web feature server (WFS)

The WHIPS prototype for data warehouse creation and maintenance Wilburt J. Labio, Yue Zhuge, Janet L. Wiener, Himanshu Gupta, Héctor García-Molina, Jennifer Widom



June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(411.70 KB)

Additional Information: full citation, abstract, references, citings, index

A data warehouse is a repository of integrated information from distributed, autonomous, and possibly heterogeneous, sources. In effect, the warehouse stores one or more materialized views of the source data. The data is then readily available to user applications for querying and analysis. Figure 1 shows the basic architecture of a warehouse: data is collected from each source, integrated with data from other sources, and stored at the warehouse. Users then access the data directly from th ...

Session 5B: mobile software agents: ACQUIRE: agent-based complex query and information retrieval engine



Subrata Das, Kurt Shuster, Curt Wu

July 2002 Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

Publisher: ACM Press

Full text available:

Additional Information: full citation, abstract, references, citings, index

pdf(1.07 MB)

terms

The heterogeneous, distributive and voluminous nature of many government and corporate data sources impose severe constraints on meeting the diverse requirements of users who analyze the data. Additionally, communication bandwidth limitations, time constraints, and multiplicity of data formats impose further restrictions on users of these distributed data sources. What is required is a reliable, robust, and efficient data retrieval technique that can access data from distributed data sources whi ...

Keywords: distributed data sources, information retrieval, interface agent, mobile agents, softbot

Infomaster: an information integration system

Michael R. Genesereth, Arthur M. Keller, Oliver M. Duschka

June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(516.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Infomaster is an information integration system that provides integrated access to multiple distributed heterogeneous information sources on the Internet, thus giving the illusion of a centralized, homogeneous information system. We say that Infomaster creates a virtual data warehouse. The core of Infomaster is a facilitator that dynamically determines an efficient way to answer the user's query using as few sources as necessary and harmonizes the heterogeneities among these sources. Infoma ...

9 Location-based services and mobile computing: data models: Design of field



wrappers for mobile field data collection Peisheng Zhao, Sarah Nusser, Leslie Miller

November 2002 Proceedings of the 10th ACM international symposium on Advances in geographic information systems

Publisher: ACM Press

Full text available: pdf(214.83 KB) Additional Information: full citation, abstract, references, index terms

In mobile field data collection, data gatherer requires to get geospatial information service to support in navigating to the right locations, describing context of observed object and providing thematic information for sampling or analysis. The framework how to get this information is subject to the variation in users with different levels of knowledge about information services, applications with different need of information, and limitations of field computing environments. In this paper, we ...

Keywords: field, heterogeneity, mediator, mobile, wrapper

10 The MRE wrapper approach: enabling incremental view maintenance of data



November 1999 Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(750, 33 KB)

Some of the most recently proposed algorithms for the incremental maintenance of materialized data warehouses (DW), such as SWEEP and PSWEEP, offer several significant advantages over previous solutions, such as high-performance, no potential for infinite

waits and reduced remote queries and thus reduced network and information source (IS) loads. However, similar to many other algorithms, they still have the restricting assumption that each IS can be composed of just one single relation. Th ...

11 The state of the art in distributed query processing

Donald Kossmann

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(455.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

12 Integrating dynamically-fetched external information into a DBMS for semistructured

data

Jason McHugh, Jennifer Widom

December 1997 ACM SIGMOD Record, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(646.95 KB) Additional Information: full citation, abstract, citings, index terms

We describe the external data manager component of the Lore database system for semistructured data. Lore's external data manager enables dynamic retrieval and integration of data from arbitrary, heterogeneous external sources during query processing. The distinction between Lore-resident and external data is invisible to the user. We introduce a flexible notion of arguments that limits the amount of data fetched from an external source, an ...

13 Efficient refreshment of materialized views with multiple sources

Hui Wang, Maria Orlowska, Weifa Liang

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index terms

A data warehouse collects and maintains a large amount of data from multiple distributed and autonomous data sources. Often the data in it is stored in the form of materialized views in order to provide fast access to the integrated data. However, maintaining a certain level consistency of warehouse data with the source data is challenging in a distributed multiple source environment. Transactions containing multiple updates at one or more sources further complicate the consistency issue.

14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

15 Report on the 5th international workshop on knowledge representation meets



databases (KRDB'98)

Alex Borgida, Vinay K. Chaudhri, Martin Staudt

September 1998 ACM SIGMOD Record, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(682.76 KB) Additional Information: full citation, index terms

16 Bioinformatics (BIO): Grid-based management of biomedical data using an XML-



based distributed data management system

Shannon Hastings, Stephen Langella, Scott Oster, Tahsin Kurc, Tony Pan, Umit Catalyurek, Dan Janies, Joel Saltz

March 2005 Proceedings of the 2005 ACM symposium on Applied computing SAC '05

Publisher: ACM Press

Full text available: pdf(214.85 KB) Additional Information: full citation, abstract, references

This paper presents the application of a generic, XML-based distributed data management system for Grid-enabled management and integration of biomedical data, including image, molecular, and outcome data. We discuss the use of this system in three inter-related application scenarios: Management of large-scale image data, access to data from Internet-based bioinformatic data repositories, and integrating clinical data stored in an enterprise information warehouse into translational research.

17 Industrial papers: enterprise information integration: Enterprise information



integration: successes, challenges and controversies

Alon Y. Halevy, Naveen Ashish, Dina Bitton, Michael Carey, Denise Draper, Jeff Pollock, Arnon Rosenthal, Vishal Sikka

June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(370.31 KB) Additional Information: full citation, abstract, references

The goal of EII systems is to provide uniform access to multiple data sources without having to first load them into a data warehouse. Since the late 1990's, several EII products have appeared in the marketplace and significant experience has been accumulated from fielding such systems. This collection of articles, by individuals who were involved in this industry in various ways, describes some of these experiences and points to the challenges ahead.

18 Database theory, technology, and applications (DTTA): Ontology-based integration



for relational databases Dejing Dou, Paea LePendu

April 2006 Proceedings of the 2006 ACM symposium on Applied computing SAC '06

Publisher: ACM Press

Full text available: 📆 pdf(199.50 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we show that representation and reasoning techniques used in traditional knowledge engineering and the emerging Semantic Web can play an important role for heterogeneous database integration. Our OntoGrate architecture combines ontology-based schema representation, first order logic inference, and some SQL wrappers to integrate two sample relational databases. We define inferential data integration as the theoretical framework for our approach. The performance evaluation fo ...

Keywords: data integration, first order logic, inference, ontology, semantic integration

19 From informatics to bioinformatics

Vladimir B. Bajic, Vladimir Brusic, Jinyan Li, See-Kiong Ng, Limsoon Wong January 2003 Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 APBC '03

Publisher: Australian Computer Society, Inc.

Full text available: pdf(538.23 KB) Additional Information: full citation, abstract, references, index terms

Informatics has helped in launching molecular biology into the genomic era. It appears certain that informatics will continue to be a major factor in the success of molecular biology in the post-genome era. In this paper, we describe advances made in data integration and data mining technologies that are relevant to molecular biology and biomedical sciences. In particular, we discuss some past and present research results on topics such as (a) the taming of autonomous heterogeneous distributed d ...

Keywords: Dragon, FIMM, Kleisli, PCL, PIES, bioinformatics, data integration, data warehousing, epitope prediction, gene expression analysis, protein interaction extraction, transcription start site recognition

20 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal

March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional online transaction processing applications. This paper provides an overview ...

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41 Research papers: data cleaning and mapping: Supporting executable mappings in

model management

Sergey Melnik, Philip A. Bernstein, Alon Halevy, Erhard Rahm June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(408.49 KB) Additional Information: full citation, abstract, references

Model management is an approach to simplify the programming of metadata-intensive applications. It offers developers powerful operators, such as Compose, Diff, and Merge, that are applied to models, such as database schemas or interface specifications, and to mappings between models. Prior model management solutions focused on a simple class of mappings that do not have executable semantics. Yet many metadata applications require that mappings be executable, expressed in SQL, XSLT, or other data ...

42 Modern concurrency abstractions for C#

Nick Benton, Luca Cardelli, Cédric Fournet

September 2004 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 26 Issue 5

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(260.10 KB)

Polyphonic C♯ is an extension of the C♯ language with new asynchronous concurrency constructs, based on the join calculus. We describe the design and implementation of the language and give examples of its use in addressing a range of concurrent programming problems.

Keywords: Asynchrony, chords, events, join calculus, messages, polyphonic Casharp; synchronization, threads

43 SI in digital libraries

Nabil R. Adam, Vijayalakshmi Atluri, Igg Adiwijaya June 2000 Communications of the ACM, Volume 43 Issue 6

Publisher: ACM Press

Full text available: pdf(145.60 KB) Additional Information: full citation, references, citings, index terms, html(44.09 KB) review

44 Lineage retrieval for scientific data processing: a survey

Rajendra Bose, James Frew

March 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 1

Publisher: ACM Press

Full text available: pdf(728.75 KB) Additional Information: full citation, abstract, references, index terms

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

45 Scaling up the semantic web: Piazza: data management infrastructure for semantic



web applications

Alon Y. Halevy, Zachary G. Ives, Peter Mork, Igor Tatarinov
May 2003 Proceedings of the 12th international conference on World Wide Web
Publisher: ACM Press

Full text available: pdf(259.40 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Semantic Web envisions a World Wide Web in which data is described with rich semantics and applications can pose complex queries. To this point, researchers have defined new languages for specifying meanings for concepts and developed techniques for reasoning about them, using RDF as the data model. To flourish, the Semantic Web needs to be able to accommodate the huge amounts of existing data and the applications operating on them. To achieve this, we are faced with two problems. First, mos ...

Keywords: XML, peer data management systems, semantic web

46 Keeping virtual information resources up and running

Amy J. Lee, Anisoara Nica, Elke A. Rundensteiner

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(361.58 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The maintenance of materialized views in large-scale environments composed of numerous heterogeneous information sources (ISs), such as the WWW, has importance for the new breed of information service providers. These applications face the problem that such large-scale environments are plagued with ISs not only continuously modifying their contents, but also their schemas and query capabilities. Current view technology assumes a *static* environment, in the sense that once the underlying en ...

Keywords: WWW, adaptable views, data warehouses, evolving information sources

47 Information integration with attribution support for corporate profiles Thomas Lee, Melanie Chams, Robert Nado, Michael Siegel, Stuart Madnick





November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(845.25 KB) Additional Information: full citation, abstract, references, index terms

The proliferation of electronically available data within large organizations as well as publicly available data (e.g. over the World Wide Web) poses challenges for users who wish to efficiently interact with and integrate multiple heterogeneous sources. This paper presents CI3, a corporate information integrator, which applies XML as a tool to facilitate data mediation and integration amongst heterogeneous sources in the context of financial analysts creating corporate ...

Keywords: XML, attribution, data integration, data mediation, metadata

48 The Clio project: managing heterogeneity

Renée J. Miller, Mauricio A. Hernández, Laura M. Haas, Lingling Yan, C. T. Howard Ho, Ronald Fagin, Lucian Popa

March 2001 ACM SIGMOD Record, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(628.77 KB) Additional Information: full citation, abstract, citings, index terms

Clio is a system for managing and facilitating the complex tasks of heterogeneous data transformation and integration. In Clio, we have collected together a powerful set of data management techniques that have proven invaluable in tackling these difficult problems. In this paper, we present the underlying themes of our approach and present a brief case study.

49 Can GRID services provide answers to the challenges of national health information sharing?



I. Bilykh, Y. Bychkov, D. Dahlem, J. H. Jahnke, G. McCallum, C. Obry, A. Onabajo, C. Kuziemsky

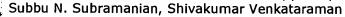
October 2003 Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(964.34 KB) Additional Information: full citation, abstract, references, index terms

It has been widely recognized that one of the keys to cost reduction and service improvement in national health care lies in the integration of medical information system. Integration of information can not only improve care delivery today, but it can also help build research bases to enhance future care delivery. The question is how to achieve such integration? Imposing a single client software solution or common clinical terminology does not appear likely to happen. That lack of single softwar ...

50 Cost-based optimization of decision support queries using transient-views



June 1998 ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references, citings, index terms

Next generation decision support applications, besides being capable of processing huge amounts of data, require the ability to integrate and reason over data from multiple, heterogeneous data sources. Often, these data sources differ in a variety of aspects such as their data models, the query languages they support, and their network protocols. Also, typically they are spread over a wide geographical area. The cost of processing decision

support queries in such a setting is quite high. Ho ...

51 Towards the digital government of the 21st century

Herbert Schorr, Salvatore J. Stolfo

May 2002 Proceedings of the 2002 annual national conference on Digital government research dg.o '02

Publisher: Digital Government Research Center

Full text available: pdf(319.96 KB) Additional Information: full citation, abstract

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information servic ...

Towards the digital government of the 21st century: a report from the workshop on research and development opportunities in federal information services

Herbert Schorr, Salvatore J. Stolfo

May 2000 Proceedings of the 2000 annual national conference on Digital government research dg.o '00

Publisher: Digital Government Research Center

Full text available: pdf(339.17 KB) Additional Information: full citation, abstract

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information servic ...

53 Preserving mapping consistency under schema changes

Yannis Velegrakis, J. Miller, Lucian Popa

September 2004 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(327.88 KB) Additional Information: full citation, abstract, citings, index terms

In dynamic environments like the Web, data sources may change not only their data but also their schemas, their semantics, and their query capabilities. When a mapping is left inconsistent by a schema change, it has to be detected and updated. We present a novel framework and a tool (ToMAS) for automatically adapting (rewriting) mappings as schemas evolve. Our approach considers not only local changes to a schema but also changes that may affect and transform many components of a schema. Our alg ...

54 Component-based e-commerce: assessment of current practices and future

directions

Martin Bichler, Arie Segev, J. Leon Zhao

December 1998 ACM SIGMOD Record, Volume 27 Issue 4

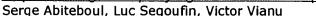
Publisher: ACM Press

Full text available: pdf(759.85 KB) Additional Information: full citation, abstract, citings, index terms

Component-based e-commerce technology is a recent trend towards resolving the e-commerce challenge at both system and application levels. Instead of delivering a system as a prepacked monolith system containing any conceivable feature, component-based systems consist of a lightweight kernel to which new features can be added in the form of components. In order to identify the central problems in component-based e-commerce

and ways to deal with them, we investigate prototype ...

55 Representing and querying XML with incomplete information





Publisher: ACM Press

Full text available: pdf(226,27 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations systems developed by Imielinski and Lipski for relational databases. In the scenario we consider, the incomplete information about an XML document is continuously enriched by successive queries to the document. We show that our representation ...

56 SchemaSQL: An extension to SQL for multidatabase interoperability

Laks V. S. Lakshmanan, Fereidoon Sadri, Subbu N. Subramanian

December 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 4

Publisher: ACM Press

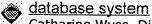
Full text available: pdf(435.89 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

We provide a principled extension of SQL, called *SchemaSQL*, that offers the capability of uniform manipulation of data and schema in relational multidatabase systems. We develop a precise syntax and semantics of *SchemaSQL* in a manner that extends traditional SQL syntax and semantics, and demonstrate the following. (1) *SchemaSQL* retains the flavor of SQL while supporting querying of both data and schema. (2) It can be used to transform data in a database in a structure substa ...

Keywords: Information integration, SchemaSQL, multidatabase systems, restructuring views, schematic heterogeneity

57 Query Processing: A relational algebra for data/metadata integration in a federated



Catharine Wyss, Dirk Van Gucht

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The need for *interoperability* among databases has increased dramatically with the proliferation of readily available DBMS and application software. Even within a single organization, data from disparate relational databases must be integrated. A framework for interoperability in a federated system of relational databases should be inherently *relational*, so that it can use existing techniques for query evaluation and optimization where possible and retain the key features of SQL, su ...

Keywords: database integration, database schema integration, federated data-base systems, federated information system (FIS), interoperability, metadata, metaquery, multidatabase, query languages, relation-al algebra, schema transparency

Potpourri: Provenance management in curated databases





Peter Buneman, Adriane Chapman, James Cheney

June 2006 Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06

Publisher: ACM Press

Full text available: pdf(191.13 KB) Additional Information: full citation, abstract, references, index terms

Curated databases in bioinformatics and other disciplines are the result of a great deal of manual annotation, correction and transfer of data from other sources. Provenance information concerning the creation, attribution, or version history of such data is crucial for assessing its integrity and scientific value. General purpose database systems provide little support for tracking provenance, especially when data moves among databases. This paper investigates general-purpose techniques for rec ...

Keywords: curation, provenance, storage

59 Data Management: Beyond the Traditional: The Enosys Markets data integration

platform: lessons from the trenches

Yannis Papakonstantinou, Vasilis Vassalos

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(966.55 KB) Additional Information: full citation, abstract, index terms

Enosys Markets offers a state-of-the-art data integration software platform to support the development of the next generation of eBusiness applications that deliver value by providing new levels of function for customer relationship management, e-commerce, supply chain management, and decision support. These applications require that data be integrated from information sources that exist both within and across organizational boundaries. The Enosys Markets data integration architecture and produc ...

Keywords: XML, distributed querying, heterogeneous databases, integration, mediators. query forms, reports, semistructured data

60 Writing the web: Mining topic-specific concepts and definitions on the web

Bing Liu, Chee Wee Chin, Hwee Tou Ng

May 2003 Proceedings of the 12th international conference on World Wide Web

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(245,66 KB) terms

Traditionally, when one wants to learn about a particular topic, one reads a book or a survey paper. With the rapid expansion of the Web, learning in-depth knowledge about a topic from the Web is becoming increasingly important and popular. This is also due to the Web's convenience and its richness of information. In many cases, learning from the Web may even be essential because in our fast changing world, emerging topics appear constantly and rapidly. There is often not enough time for someone ...

Keywords: definition mining, domain concept mining, information integration, knowledge compilation, web content mining

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Relevance scale

61 Reports: Report on the EDBT'02 panel on scientific data integration

Omar Boucelma, Silvana Castano, Carole Goble, Vanja Josifovski, Zoé Lacroix, Bertram Ludäscher

December 2002 ACM SIGMOD Record, Volume 31 Issue 4

Publisher: ACM Press

Results 61 - 73 of 73

Full text available: pdf(575.95 KB) Additional Information: full citation, references, citings

62 Exchanging intensional XML data

Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Fred Dang Ngoc March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, index terms

XML is becoming the universal format for data exchange between applications. Recently, the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services. When such documents are exchanged between applications, one has the choice of ...

Keywords: Data exchange, Web services, XML, intensional information, typing

63 Research session: integration and mapping #2: Tuning schema matching software using synthetic scenarios

Mayssam Sayyadian, Yoonkyong Lee, AnHai Doan, Arnon S. Rosenthal
August 2005 Proceedings of the 31st international conference on Very large data
bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(320.02 KB) Additional Information: full citation, abstract, references, index terms

Most recent schema matching systems assemble *multiple components*, each employing a particular matching technique. The domain user must then *tune* the system: select the right component to be executed and correctly adjust their numerous "knobs" (e.g., thresholds, formula coefficients). Tuning is skill- and time-intensive, but (as we show) without it the matching accuracy is significantly inferior. We describe eTuner, an approach

to automatically tune schema matching systems. Gi ...

	or automatically talle belieflia matering bystomor or m					
64	Selectively materializing data in mediators by analyzing source structure, query					
	distribution and maintenance cost					
	Naveen Ashish, Craig A. Knoblock, Cyrus Shahabi					
	November 1999 Proceedings of the 2nd international workshop on Web information and data management					
	Publisher: ACM Press					
	Full text available: pdf(603.61 KB) Additional Information: full citation, abstract, references, index terms					
	We present an approach to selecting data to materialize in Web based information mediators by analyzing multiple factors. An issue in building Web based information mediators is how to improve the query response time given the high response time for retrieving data from remote Web sources. We had earlier presented a framework for optimizing the performance of information mediators by selectively materializing data. In this paper we describe our approach for automatically selecting the porti					
65	Offline strategies for online question answering: answering questions before they are asked					
	Michael Fleischman, Eduard Hovy, Abdessamad Echihabi July 2003 Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 1 ACL '03 Publisher: Association for Computational Linguistics Full text available: pdf(240.07 KB) Additional Information: full citation, abstract, references					
	Recent work in Question Answering has focused on web-based systems that extract answers using simple lexico-syntactic patterns. We present an alternative strategy in which patterns are used to extract highly precise relational information offline, creating a data repository that is used to efficiently answer questions. We evaluate our strategy on a challenging subset of questions, i.e. "Who is" questions, against a state of the art web-based Question Answering system. Results indicate that t					
66	Evolving and messaging decision-making agents Edmund S. Yu May 2001 Proceedings of the fifth international conference on Autonomous agents					
	Publisher: ACM Press					
	Full text available: pdf(240.53 KB) Additional Information: full citation, abstract, references, index terms					
	In this paper we describe our neurogenetic approach to developing a multi- agent decision support system which assists users in gathering, merging, analyzing, and using information to assess risks and make recommendations in situations that may require tremendous amounts of time and attention of the users. In Phase I of this project, called the EMMA project, we demonstrated the feasibility of a set of solutions to various problems by building an intelligent agent application that makes reco					
	Keywords : adaptation and learning, agent communication languages, evolution of agents, information agents, multi-agent communication/collaboration					
67	Reports: Amicalola report: database and information systems research challenges and opportunities in semantic web and enterprises Amit Sheth, Robert Meersman December 2002 ACM SIGMOD Record, Volume 31 Issue 4					
	Publisher: ACM Press Full text available: pdf(786.56 KB) Additional Information: full citation, references					

68	Representing and querying XML with incomplete information							
0	Serge Abiteboul, Luc Segoufin, Victor Vianu March 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 1							
	Publisher: ACM Press							
	Full text available: pdf(685.60 KB) Additional Information: full citation, abstract, references, index terms							
	We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations systems developed by Imielinski and Lipski [1984] for relational databases. In the scenario we consider, the incomplete information about an XML document is continuously enriched by successive queries to the document. We show that our representa							
	Keywords: Incomplete information, XML							
69	Is GUI programming a database research problem?							
	Nita Goyal, Charles Hoch, Ravi Krishnamurthy, Brian Meckler, Michael Suckow							
1213	June 1996 ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96, Volume 25 Issue 2							
	Publisher: ACM Press							
	Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms							
	Programming nontrivial GUI applications is currently an arduous task. Just as the use of a declarative language simplified the programming of database applications, we ask whether we can do the same for GUI programming? Can we then import a large body of knowledge from database research? We answer these questions by describing our experience in building nontrivial GUI applications initially using C++ programming and subsequently using Logic++, a higher order Horn clause logic language on complex							
70	Practitioner reports: "Honey, i shrunk the types": how behavioral types loose							
*	relevance on the edges on OO applications and why a core data fabric is useful for adaptability							
	John Kuriakose October 2005 Companion to the 20th annual ACM SIGPLAN conference on Object-							
	oriented programming, systems, languages, and applications OOPSLA							
	'05 Publisher: ACM Press							
	Full text available: pdf(232.31 KB) Additional Information: full citation, abstract, references, index terms							
	OO Programs are built by first defining User Types within the language environment and then realizing program requirements by using the behavior defined by these Types.We argue against defining types to deal with every scenario.OO Programs within an enterprise have to deal with the non-OO world that includes RDBMS, other Applications, and humans etc. On these EDGES that OO programs interact with the non-OO world we have observed that there is little respect for Types and behavior while the requi							
	Keywords : core data representation, data driven programming, dynamic data model, enterprise data fabric, enterprise data repository, reflective data API							
71	Special section on semantic integration: Industrial-strength schema matching							
	Philip A. Bernstein, Sergey Melnik, Michalis Petropoulos, Christoph Quix							



December 2004 ACM SIGMOD Record, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(349.03 KB) Additional Information: full citation, abstract, references, citings

Schema matching identifies elements of two given schemas that correspond to each other. Although there are many algorithms for schema matching, little has been written about building a system that can be used in practice. We describe our initial experience building such a system, a customizable schema matcher called Protoplasm.

72 Automated ontology evolution in a multi-agent system

Mohsen Afsharchi, Behrouz H. Far

May 2006 Proceedings of the 1st international conference on Scalable information systems InfoScale '06

Publisher: ACM Press

Full text available: pdf(239 62 KB) Additional Information: full citation, abstract, references

This research addresses the formation of new concepts and their corresponding ontology in a multi-agent system where individual autonomous agents try to learn new concepts by consulting several other agents. In this research individual agents create and learn their distinct conceptualization and rather than a commitment to a common ontology they use their own ontologies. In this paper multi-agent supervised learning of concepts among individual agents with diverse conceptualization and different ...

73 Operating systems: InfoSpect: using a logic language for system health monitoring in

distributed systems

Timothy Roscoe, Richard Mortier, Paul Jardetzky, Steven Hand

July 2002 Proceedings of the 10th workshop on ACM SIGOPS European workshop: beyond the PC EW10

Publisher: ACM Press

Full text available: pdf(120.29 KB) Additional Information: full citation, abstract, references

Dependable systems cannot be built without a monitoring and management component. In this paper we propose using a wide variety of information gathering tools coupled with custom scripts and a Prolog language engine to aggregate information from multiple sources. Complex queries, difficult to express in standard database languages, can then be used to answer questions about the system (e.g. the health of individual components) or to discover contradictions (e.g. inconsistent configurations). We ...

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Relevance scale

21 METRICS: a system architecture for design process optimization



Stephen Fenstermaker, David George, Andrew B. Kahng, Stefanus Mantik, Bart Thielges June 2000 Proceedings of the 37th conference on Design automation

Publisher: ACM Press

Full text available: pdf(119.16 KB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

We describe METRICS, a system to recover design productivity via new infrastructure for design process optimization. METRICS seeks to treat system design and implementation as a science, rather than an art. A key precept is that measuring a design process is a prerequisite to optimizing it and continuously achieving maximum productivity. METRICS (i) unobtrusively gathers characteristics of design artifacts, design process, and communication ...

²² Surveys: Integration of biological sources: current systems and challenges ahead



Thomas Hernandez, Subbarao Kambhampati

September 2004 ACM SIGMOD Record, Volume 33 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references Full text available: pdf(78.41 KB)

This paper surveys the area of biological and genomic sources integration, which has recently become a major focus of the data integration research field. The challenges that an integration system for biological sources must face are due to several factors such as the variety and amount of data available, the representational heterogeneity of the data in the different sources, and the autonomy and differing capabilities of the sources.

This survey describes the main integration approac ...

23 Database principles: Logic-based web information extraction

Georg Gottlob, Christoph Koch

June 2004 ACM SIGMOD Record, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(1.74 MB)

Additional Information: full citation, abstract, references

The Web wrapping proble, i.e., the problem of extracting structured information from HTML documents, is one of great practical importance. The often observed information overload that users of the Web experience witnesses the lack of intelligent and encompassing Web services that provide high-quality collected and value-added

inforamtion. The Web wrapping problem has been addressed by a significant amount of research work. Previous work can be classified into two categories, depending on ...

24 <u>Database collaboration instead of integration</u>

Gunar Fiedler, Thomas Raak, Bernhard Thalheim

January 2005 Proceedings of the 2nd Asia-Pacific conference on Conceptual modelling - Volume 43 APCCM '05

Publisher: Australian Computer Society, Inc.

Full text available: pdf(342.53 KB) Additional Information: full citation, abstract, references, index terms

Database integration is currently solved only for the case of simple structures. Semantics is mainly neglected. It is known but often neglected that database integration cannot be automated. System integration is far more difficult. Both integrations can only be performed if a number of assumptions can be made for the integrated system. Instead of integrating systems entirely cooperation or collaboration of systems can be developed and used. We propose in this paper the extension of the view coo ...

Keywords: data integration, data warehouse, database collaboration, view co-operation

The intrinsic problems of structural heterogeneity and an approach to their solution



Volume 8 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(132.99 KB) Additional Information: full citation, abstract, citings, index terms

This paper focuses on the problems that arise when integrating data from heterogeneous sources in a single, unified database view. At first, we give a detailed analysis of the kinds of structural heterogeneity that occur when unified views are derived from different database systems. We present the results in a multiple tier architecture which distinguishes different levels of heterogeneity and relates them to their underlying causes as well as to the mapping conflicts resulting from the view de ...

Keywords: Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema mapping, Updatable views

Sync your data: update propagation for heterogeneous protein databases
T. Claypool, A. Rundensteiner

September 2005 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 14 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.92 MB) Additional Information: full citation, abstract

The traditional model of bench (wet) chemistry in many life sciences domain is today actively complimented by computer-based discoveries utilizing the growing number of online data sources. A typical *computer-based discovery* scenario for many life scientists includes the creation of local caches of pertinent information from multiple online resources such as Swissprot [Nucleic Acid Res. **1**(28), 45–48 (2000)], PIR [Nucleic Acids Res. **28**(1), 41–44 (2000)], PDB [Th ...

Keywords: Data transformation, Data translation, Schema evolution, Update propagation, View maintenance

An overview and classification of mediated query systems



Ruxandra Domenig, Klaus R. Dittrich

September 1999 ACM SIGMOD Record, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(897.64 KB) Additional Information: full citation, abstract, citings, index terms

Multimedia technology, global information infrastructures and other developments allow users to access more and more information sources of various types. However, the "technical" availability alone (by means of networks, WWW, mail systems, databases, etc.) is not sufficient for making meaningful and advanced use of all information available online. Therefore, the problem of effectively and efficiently accessing and querying heterogeneous and distributed data sources is an impo ...

28 An algebra for composing access control policies



Piero Bonatti, Sabrina De Capitani di Vimercati, Pierangela Samarati

February 2002 ACM Transactions on Information and System Security (TISSEC), Volume

Publisher: ACM Press

Full text available: pdf(384.06 KB)

Additional Information: full citation, abstract, references, citings, index terms

Despite considerable advancements in the area of access control and authorization languages, current approaches to enforcing access control are all based on monolithic and complete specifications. This assumption is too restrictive when access control restrictions to be enforced come from the combination of different policy specifications, each possibly under the control of independent authorities, and where the specifics of some component policies may not even be known apriori. Turning individu ...

Keywords: Access control, algebra, logic programs, policy composition

29 A modular approach to composing access control policies



Piero Bonatti, Sabrina de Capitani di Vimercati, Pierangela Samarati

November 2000 Proceedings of the 7th ACM conference on Computer and communications security

Publisher: ACM Press

Full text available: pdf(658.81 KB) Additional Information: full citation, references, citings, index terms

Keywords: access control, algebra, logic programs, policy composition

30 ObjectGlobe: Ubiquitous query processing on the Internet R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(251.44 KB) Additional Information: full citation, abstract, citings, index terms

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which data and query processing capabilities can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates cycle providers (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

31 Managing semantic heterogeneity in databases: a theoretical prospective



Richard Hull

May 1997 Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on **Principles of database systems**

Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: full citation, references, citings, index terms

32 Research session: integration and mapping #2: Mapping maintenance for data integration systems



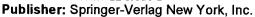
Robert McCann, Bedoor AlShebli, Quoc Le, Hoa Nguyen, Long Vu, AnHai Doan August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(263.12 KB) Additional Information: full citation, abstract, references, index terms

To answer user queries, a data integration system employs a set of semantic mappings between the mediated schema and the schemas of data sources. In dynamic environments sources often undergo changes that invalidate the mappings. Hence, once the system is deployed, the administrator must monitor it over time, to detect and repair broken mappings. Today such continuous monitoring is extremely labor intensive, and poses a key bottleneck to the widespread deployment of data integration systems in p ...

33 Business-to-business interactions: issues and enabling technologies B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid May 2003 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 12 Issue 1

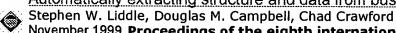


Full text available: pdf(558.34 KB) Additional Information: full citation, abstract, citings, index terms

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

34 Automatically extracting structure and data from business reports





Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, index terms

A considerable amount of clean semistructured data is internally available to companies in the form of business reports. However, business reports are untapped for data mining, data warehousing, and querying because they are not in relational form. Business reports have a regular structure that can be reconstructed. We present algorithms that automatically infer the regular structure underlying business reports and automatically generate wrappers to extract relational data.

Keywords: automatic wrapper generation, business reports, data and information extraction, regular expressions, report structure

35 Computing curricula 2001



Publisher: ACM Press

Full text available: pdf(613.63 KB)

(a) html(2.78 KB)

Additional Information: full citation, references, citings, index terms

36 Unifying heterogeneous information models

Narinder Singh

May 1998 Communications of the ACM, Volume 41 Issue 5

Publisher: ACM Press

Full text available: pdf(336.15 KB) Additional Information: full citation, references, citings, index terms,

review

37 DIVE-ON: from databases to virtual reality

Ayman Ammoura

March 2001 Crossroads, Volume 7 Issue 3

discovery and retrieval of spatial data

Publisher: ACM Press

Full text available: html(57.88 KB) Additional Information: full citation, references, citings, index terms

38 Service oriented system modeling and application: An approach for service oriented



Manoj Paul, S. K. Ghosh

May 2006 Proceedings of the 2006 international workshop on Service-oriented software engineering SOSE '06

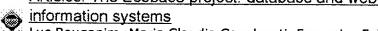
Publisher: ACM Press

Full text available: pdf(168.99 KB) Additional Information: full citation, abstract, references, index terms

Successful information integration and sharing data across disparate systems and designs are required for fast access to and interpretation of many types of geospatial information. Spatial data are highly heterogeneous - not only they differ from data representation and storage methods, but they also differ in the way of querying the data. Finding and accessing spatial data in an environment like this is a crucial task. Enterprise geographic information system (E-GIS) is an organization-wide app ...

Keywords: geospatial web service, ontology, spatial data interoperability

39 Articles: The Ecobase project: database and web technologies for environmental



Luc Bouganim, Maria Claudia Cavalcanti, Françoise Fabret, Maria Luiza Campos, François Llirbat, Marta Mattoso, Rubens Melo, Ana Maria Moura, Esther Pacitti, Fabio Porto, Margareth Simoes, Eric Simon, Asterio Tanaka, Patrick Valduriez

September 2001 ACM SIGMOD Record, Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(691.59 KB) Additional Information: full citation, abstract, references, citings, index

A very large number of data sources on environment, energy, and natural resources are available worldwide. Unfortunately, users usually face several problems when they want to search and use relevant information. In the Ecobase project, we address these problems in the context of several environmental applications in Brazil and Europe. We propose a distributed architecture for environmental information systems (EIS) based on the Le Select middleware developed at INRIA. In this paper, we present ...

40 Adaptable query optimization and evaluation in temporal middleware



Giedrius Slivinskas, Christian S. Jensen, Richard Thomas Snodgrass

May 2001 ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(232.65 KB)

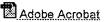
Additional Information: full citation, abstract, references, citings, index

Time-referenced data are pervasive in most real-world databases. Recent advances in temporal query languages show that such database applications may benefit substantially from built-in temporal support in the DBMS. To achieve this, temporal query optimization and evaluation mechanisms must be provided, either within the DBMS proper or as a source level translation from temporal queries to conventional SQL. This paper proposes a new approach: using a middleware component on top of a conventio ...

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Ly, Anh

From: Ly, Anh

Sent: Thursday, August 17, 2006 3:16 PM

To: Corrielus, Jean M.; Coby, Frantz

Cc: Wassum, Luke

Subject: 09/479,432

Hi, Jean & Frank:

As both of you told me I met Luke, who has no idea about this which is out of his expertise. Have A Good One!

Anh Ly

GAU: 2162 (RND RM# 3A39)

571-272-4039

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